



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY MATERIEL SYSTEMS ANALYSIS ACTIVITY
Aberdeen Proving Ground, Maryland 21005-5071

AMXSY-C

MEMORDANUM FOR Deputy Under Secretary of the Army for Operations Research,
ATTN: SAUS-OR (Mr. Hollis), Under Secretary of the Army,
102 Army Pentagon, Washington, D. C.20310-0103

SUBJECT: Object Development Strategy

1. References:

- a. DUSA-OR Briefing on Object Management Policy (encl 1).
- b. AMSAA/TRAC Summit, 31 January 1997.

2. The object management policy is to:

- a. Use standard object class and object class behavior/attribute definitions in building all future simulations.
- b. Use standard algorithms and data resources in class definitions.
- c. Develop all future code to be HLA compliant: the policy recognizes that object class code development is dependent upon the model or simulation development environment. Maximum code reuse will occur when the same model development environment is used.

3. Four new simulations will be developed over the next five years: ONESAF, JWARS, WARSIM, and JSIMS. In addition, TRAC plans to modernize CASTFOREM. Object and object class definitions, physical and behavior algorithms, and data structures are required to develop all of these simulations. To ensure an efficient development of objects for all five simulations an object development strategy is required.

4. Enclosure 2 describes a proposed object development strategy (first discussed at reference 1b) to develop object and object class definitions, algorithms, and data structures to support all five simulation developments based upon the best of ModSAF, CASTFOREM, CCTT SAF, VIC, EAGLE, and FORCEM. Two teams are proposed: system level objects and unit level objects. The system level objects team should be co-chaired by AMSAA and TRAC-WSMR. The unit level objects team should be co-chaired by TRAC-FLVN and CAA. Standards categories coordinators and team member participation would be solicited as requested.

AMXSY-C

SUBJECT: Object Development Strategy

5. Since ONESAF and CASTFOREM modernization efforts have not started, it is proposed that a common simulation development environment be selected for these two models. Further, it is proposed that a single TRAC-directed team, augmented with contractor support, develop object class code for both ONESAF and to modernize CASTFOREM.

6. In order to make this work, funds must be found to support the system and unit object, object class, algorithm, and data structure definitions. Funding for the system object class, algorithms, and data definitions and coding should be provided by ONESAF and TRAC. Funding support for unit object class, algorithms, and data definitions should be sought from JWARS, JSIMS, and WARSIM.

7. DUSA-OR supports the proposed object development- strategy. However, we need a team (AMSAA/TRAC/CAA/PM-DIS/PM-CATT) to develop a more detailed proposal to implement this strategy. Please identify your POC to the AMSAA POC (Mr. Will Brooks, DSN 298-6598 or commercial 410-278-6598).

2 Ends
as

JOHN J. McCARTHY
Director

CF:

Director, U.S. Army TRADOC Analysis Command-FLVN, ATTN: ATRC-ZD
(Mr. Bauman)/ATRC-FM OMr. Pickett)/ATRC-F (Mr. Fox), Fort Leavenworth, KS
66027-5200

Director, U.S. Army TRADOC Analysis Command-WSMR, ATTN: ATRC-WE
(Mr. Reynolds), White Sands Missile Range, NM 88802-5502

Director, U.S. Army Concepts Analysis Agency, ATTN: CSCA- ZA (Mr. Vandiver),
8120 Woodmont Avenue, Bethesda, MD 20814-2797

Director, Assessment and Evaluation, ATTN: SARD-ZD (Dr. Fallin), Office of the
Assistant Secretary of the Army for Research, Development and Acquisition, 103 Army
Pentagon, Washington, D.C 20310-0103

Technical Advisor, ATTN: DAMO-ZD (Mr. Riente), Deputy Chief of Staff for Operations
and Plans, 400 Army Pentagon, Washington, D.C. 20310-0400

Commander, U.S. Army Simulation, Training and Instrumentation Command, ATTN:
AMSTI-CG (BG Gels), 12530 Research Parkway, Orlando, FL 32826-3276
Program Manager, Combined Arms Tactical Trainer, ATTN: AMCPM-CATT
(COL Hammond), 12350 Research Parkway, Orlando, FL 32826-3276

Program Manager, Distributed Interactive Simulation, ATTN: AMCPM-DIS (LTC(P)
Rogers), 12350 Research Parkway, Orlando, FL 32826-3276

Director, U.S. Army Model and Simulation Office, ATTN: DAMO-ZS (COL Ruth/
Ms. McGlynn), Suite 503, Crystal Gateway North, 1111 Jefferson Davis Highway,
Arlington, VA 22202